



Sequence Listing

<110> E.I. du Pont de Nemours and Company

<120> Aspartate Kinase

<130> BB1430 PCT

<140> 09/890813

<141> 2001-08-02

<150> PCT/US00/34396

<151> 2000-12-19

<150> 60/172944

<151> 1999-12-21

<160> 28

<170> PatentIn version 3.2

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<211> 565

<212> DNA

<213> Zea mays

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<222> (127)

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Ile Leu Glu Lys Thr Gly Arg Val Leu Xaa Glu Ser Gly Val Asn Val
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Gln Met Ile Ser Gln Gly Ala Ser Lys Val Asn Met Ser Leu Ile Val
50 55 60

His Asp Ser Asp Ala Lys Ala Leu Val Glu Ala Leu His Gln Ala Phe
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35 40 45

Arg Gly Leu Ser Met Val Val Ala Asp Ser Thr Ser Arg Arg Ala Lys
50 55 60

Gln Ala Asp Gly Gly Asp Gly Val Leu Gly Ala Pro Val Leu Gly Gly
65 70 75 80

Leu Gly Met Glu Gly Leu Gly Asp Gln Leu Ser Val Val Met Lys Phe
85 90 95

Gly Gly Ser Ser Val Ser Ser Ala Ala Arg Met Ala Glu Val Ala Gly
100 105 110

Leu Ile Leu Thr Phe Pro Glu Glu Arg Pro Val Val Val Leu Ser Ala
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<213> Zea mays

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<222> (384)
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35 40 45
Ala Asp Ser Thr Ser Arg Arg Ala Lys Gln Ala Asp Gly Gly Asp Gly
50 55 60
Val Leu Gly Ala Pro Val Leu Gly Gly Leu Gly Met Glu Gly Leu Gly
65 70 75 80
Asp Gln Leu Ser Val Val Met Lys Phe Gly Gly Ser Ser Val Ser Ser
85 90 95
Ala Ala Arg Met Ala Glu Val Ala Gly Leu Ile Leu Thr Phe Pro Glu
100 105 110
Glu Arg Pro Val Val Val Leu Ser Ala Met Gly Lys Thr Thr Asn Asn
115 120 125
Leu Leu Leu Ala Gly Glu Lys Ala Val Gly Cys Gly Val Ile His Val
130 135 140
Ser Glu Ile Glu Glu Trp Asn Met Val Lys Ser Leu His Ile Lys Thr
145 150 155 160
Val Asp Glu Leu Gly Leu Pro Xaa Ile Cys Asn Thr Ser Leu Tyr Glu
165 170 175
Leu Glu Gln Leu Leu Lys Gly Ile Ala Met Met Lys Glu Leu Thr Pro
180 185 190
Arg Thr Ser Asp Tyr Leu Val Ser Phe Gly Glu Cys Met Ser Thr Arg
195 200 205
Ile Phe Ser Ala Tyr Leu Asn Lys Ile Arg Val Lys Ala Arg Gln Tyr
210 215 220

Asp	Ala	Phe	Asp	Ile	Gly	Phe	Ile	Thr	Thr	Asp	Glu	Phe	Gly	Asn	Ala	225	230	235	240
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Lys	Gly	Trp	Lys	Ser	Gly	Ala	Val	Thr	Thr	Leu	Gly	Arg	Gly	Gly	Ser	275	280	285	
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Cys	Val	Ala	Thr	Ser	Glu	Val	Ser	Val	Ser	Val	Ser	Leu	Asp	Pro	Ser	435	440	445	
Lys	Ile	Trp	Ser	Arg	Glu	Leu	Ile	Gln	Gln	Ala	Ser	Glu	Leu	Asp	His	450	455	460	
Val	Val	Glu	Glu	Leu	Glu	Lys	Ile	Ala	Ile	Val	Arg	Leu	Leu	Gln	Gln	465	470	475	480
Arg	Ala	Ile	Ile	Ser	Leu	Ile	Gly	Asn	Val	Glu	Gln	Ser	Ser	Leu	Ile	485	490	495	
Leu	Glu	Lys	Thr	Gly	Arg	Val	Leu	Arg	Lys	Ser	Gly	Val	Asn	Val	Gln	500	505	510	
Met	Ile	Ser	Gln	Gly	Ala	Ser	Lys	Val	Asn	Met	Ser	Leu	Ile	Val	His	515	520	525	
Asp	Ser	Asp	Ala	Lys	Ala	Leu	Val	Glu	Ala	Leu	His	Gln	Ala	Phe	Phe	530	535	540	

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 <212> DNA
 <213> Zea mays

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 <213> Zea mays

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 35 40 45

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Ser	Arg	Glu	Leu	Ile	Gln	Gln	Glu	Leu	Asp	His	Val	Val	Glu	Glu	Leu
	450					455					460				
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 aatccaatca ccctgtaacc tctttgcaac agcaggatat gtcgcttcaa gaatgtccgc 180
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 aaacaaggta atcccgtgtc ctaaggagtt aagttctttc aatcaatagc aacaccctta 360
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 ccaantccca nagcctcatc aaattagtcc ctaan 455

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 <211> 114
 <212> PRT
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 Gly Lys Lys Ala Arg Gln Tyr Asp Ala Phe Asp Ile Gly Phe Ile Thr
 35 40 45
 Thr Asp Asp Phe Thr Asn Ala Asp Ile Leu Glu Ala Thr Tyr Pro Ala
 50 55 60
 Val Ala Lys Arg Leu Gln Gly Asp Trp Ile Asp Asp Pro Ala Ile Pro
 65 70 75 80
 Ile Val Thr Gly Phe Leu Gly Lys Gly Trp Lys Ser Cys Ala Val Thr
 85 90 95
 Thr Leu Gly Arg Gly Gly Ser Asp Leu Thr Ala Thr Thr Ile Gly Lys
 100 105 110
 Ala Leu

<210> 11
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 <212> DNA
 <213> Oryza sativa

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cgaaggcgtc tgaaattccc gagctcgcag ttatcaagga gctccatgtt aggactattg 420
atgagcttgg attggataga tcgattgttt caggtttatt ggaagaattg gaacaacttc 480
ttaaggggtg tgctatgatg aaagaactaa ctctaggac acgggattac cttgtttcct 540
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ctcggcagta tgatgcattt gatattggct ttataactac tgatgatttc acaaatgcgg 660
acattcttga agcgacatat cctgctgttg caaagagggt acagggtgat tggattgacg 720
accctgctat tcctatagtt actggtttcc ttggaaaagg atggaaatca tgtgctgtca 780
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847

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<210> 12
<211> 281
<212> PRT
<213> Oryza sativa

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<400> 12
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 1             5             10             15

Ala Arg Pro Gly Gly Arg Cys Ser Arg Arg Arg Gly Leu Val Val Arg
          20             25             30

Cys Gln Ser Gly Ala Ala Ala Val Val Leu Asn Lys Asp Asp Ala Ala
          35             40             45

Ser Val Ala Ala Ala Ala Ala Ser Ser Ala Thr Gly Phe Thr Val Ala
          50             55             60

Met Lys Phe Gly Gly Ser Ser Val Ala Ser Ala Glu Arg Met Arg Glu
          65             70             75             80

Val Ala Asp Leu Ile Leu Ser Phe Pro Glu Glu Thr Pro Val Val Val
          85             90             95

Leu Ser Ala Met Gly Lys Thr Thr Asn Asn Leu Leu Leu Ala Gly Glu
          100            105            110

Lys Ala Val Ser Cys Gly Ala Pro Lys Ala Ser Glu Ile Pro Glu Leu
          115            120            125

Ala Val Ile Lys Glu Leu His Val Arg Thr Ile Asp Glu Leu Gly Leu
          130            135            140

Asp Arg Ser Ile Val Ser Gly Leu Leu Glu Glu Leu Glu Gln Leu Leu
          145            150            155            160

Lys Gly Val Ala Met Met Lys Glu Leu Thr Pro Arg Thr Arg Asp Tyr
          165            170            175

Leu Val Ser Phe Gly Glu Cys Met Ser Thr Arg Ile Phe Ala Ala Tyr
          180            185            190

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Leu Asn Lys Leu Gly Lys Lys Ala Arg Gln Tyr Asp Ala Phe Asp Ile
 195 200 205
 Gly Phe Ile Thr Thr Asp Asp Phe Thr Asn Ala Asp Ile Leu Glu Ala
 210 215 220
 Thr Tyr Pro Ala Val Ala Lys Arg Leu Gln Gly Asp Trp Ile Asp Asp
 225 230 235 240
 Pro Ala Ile Pro Ile Val Thr Gly Phe Leu Gly Lys Gly Trp Lys Ser
 245 250 255
 Cys Ala Val Thr Thr Leu Gly Arg Gly Gly Ser Asp Leu Thr Ala Thr
 260 265 270
 Thr Ile Gly Lys Ala Leu Arg Thr Arg
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 <212> DNA
 <213> Triticum aestivum

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 <223> n=a,c,g or t

<220>
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<220>
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 <222> (582)
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<220>
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 <223> n=a,c,g or t

<220>
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<222> (626)
 <223> n=a,c,g or t

<220>
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<220>
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 <222> (637)
 <223> n=a,c,g or t

<220>
 <221> unsure
 <222> (640)
 <223> n=a,c,g or t

<400> 13
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 ggacgagttg gagcaactgc tcaaggggtg tgctatgatg aaagagctga ctcttaggac 180
 acgagattac cttgtttcct ttggtgaatg catgtctaca agaataattt ctgcatattt 240
 gaataaacta gggaagaagg cacgacagta tgatgctttt gatcttggnt ttataaccac 300
 tggacgattt ccacaaatgc cgatatccnc gaacaactta tcctgctgtt gcaaagagct 360
 acatgggaat tggttgatga ccctgctatc ccnatatgac ggttcccttg ggaagggatg 420
 gaacttgtgc ggcanaactt aggaaggggc ggaatgactt gacggcacia ccatgggaaa 480
 cctgggggta agaaaatcag gttggaagat gtaacgggtt tgactgtgat caatattatc 540
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 tcatcacacc aggagngacc cattcntaaa cnaaacntcn cccgga 646

<210> 14
 <211> 146
 <212> PRT
 <213> Triticum aestivum

<220>
 <221> UNSURE
 <222> (110)
 <223> Xaa=any amino acid

<220>
 <221> UNSURE
 <222> (131)
 <223> Xaa=any amino acid

<220>
 <221> UNSURE
 <222> (145)
 <223> Xaa=any amino acid

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 1 5 10 15
 Val Ile Lys Glu Leu His Leu Arg Thr Ile Asp Glu Leu Gly Leu Asp
 20 25 30
 Ser Ser Ile Val Ser Gly Phe Leu Asp Glu Leu Glu Gln Leu Leu Lys
 35 40 45

Gly Val Ala Met Met Lys Glu Leu Thr Leu Arg Thr Arg Asp Tyr Leu
50 55 60

Val Ser Phe Gly Glu Cys Met Ser Thr Arg Ile Phe Ser Ala Tyr Leu
65 70 75 80

Asn Lys Leu Gly Lys Lys Ala Arg Gln Tyr Asp Ala Phe Asp Leu Gly
85 90 95

Phe Ile Thr Thr Gly Arg Phe Pro Gln Met Pro Ile Ser Xaa Asn Asn
100 105 110

Leu Ser Cys Cys Cys Lys Glu Leu His Gly Asn Trp Leu Met Thr Leu
115 120 125

Leu Ser Xaa Tyr Asp Gly Ser Leu Gly Lys Gly Trp Asn Leu Cys Gly
130 135 140

Xaa Thr
145

<210> 15
<211> 1658
<212> DNA
<213> Triticum aestivum

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tcagggttttt tggacgagtt ggagcaactg ctcaagggtg ttgctatgat gaaagagctg 180
actccttagga caccgagatta ccttggtttcc tttggtgaat gcatgtctac aagaatattt 240
tctgcatatt tgaataaact agggaagaag gcacgacagt atgatgcttt tgatcctggc 300
tttataacca ctgacgattt cacaatgcc gatattctcg aagcaactta tctgctgtt 360
gcaaagaggc tacatggaga ttggattgat gacctgcta ttcctatagt gactggtttc 420
cttgggaagg gatggaaatc ttgtgcggtc acaacgttag gaagggcgcg cagtgacttg 480
accgctacaa ccattggcaa agccttgggg ttaagagaaa ttcaggtttg gaaggatgta 540
gacggtgtgt tgacgtgtga tccaaatatt tatgcaaacg cgggtaccagt accctacttg 600
actttttgat aggcagctga acttgcttat tttggtgcac aggttttgca tccccaatcc 660
atgcgaccag ccagggaagg tggatccca gttcgagtga agaactcata taaccgtcat 720
gcacctggca ctgtgatcac taaaacaaga gatatgcgca agagcatatt aaccagcatt 780
gtcctgaaat caaatattac catgctggat atagtgaagca caaggatgct cggacagtat 840
ggctttctag caaaggctct ctcaatattt gaagatttgg gtatctctgt tgattctgtg 900
gctactagtg aagtcagcat atcattgaca ctagatccat caaaactgtg gatcgtgaa 960
ttgatccagc aggagcttga tcatgtagtt gaagagcttg aaaagattgc ggttgttcat 1020
ctcctacagc acagatcaat catttccctg atagggaatg tgcagagatc gtctctgatt 1080
cttgagaagg cgttcaatgt tctacgcaga aatggtgtta atgttcagat gatttcgcaa 1140
ggggcgtcca aggtgaacat ctcccttggtg gtgaatgaca gcgaggcgaa gcagtgcgtg 1200
caagccctcc actcggcatt ctttgagaac ggtttcttgt cagaagtaga ggaagcggac 1260
cttgcgcgaga agagggctcc agtcctagta agctcgaatg gtgccatcaa cggaaactag 1320
tcgacgtcgc ttttttctac ttccagcaac ggatgcgccg ttcttaggtt aagaggggtga 1380
ttcgaccttg gattatctag gccacctgag ctgattcatt ggtgttgac gagctatcat 1440
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tgatgtgat tgtgagcgt cctactgtct gaacttaacc attgtgagga gccctatga 1560
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1658

<210> 16
<211> 439

<212> PRT

<213> Triticum aestivum

<400> 16

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Tyr Glu Leu Ala Val Ile Lys Glu Leu His Leu Arg Thr Ile Asp Glu
20 25 30
Leu Gly Leu Asp Ser Ser Ile Val Ser Gly Phe Leu Asp Glu Leu Glu
35 40 45
Gln Leu Leu Lys Gly Val Ala Met Met Lys Glu Leu Thr Leu Arg Thr
50 55 60
Arg Asp Tyr Leu Val Ser Phe Gly Glu Cys Met Ser Thr Arg Ile Phe
65 70 75 80
Ser Ala Tyr Leu Asn Lys Leu Gly Lys Lys Ala Arg Gln Tyr Asp Ala
85 90 95
Phe Asp Leu Gly Phe Ile Thr Thr Asp Asp Phe Thr Asn Ala Asp Ile
100 105 110
Leu Glu Ala Thr Tyr Pro Ala Val Ala Lys Arg Leu His Gly Asp Trp
115 120 125
Ile Asp Asp Pro Ala Ile Pro Ile Val Thr Gly Phe Leu Gly Lys Gly
130 135 140
Trp Lys Ser Cys Ala Val Thr Thr Leu Gly Arg Gly Gly Ser Asp Leu
145 150 155 160
Thr Ala Thr Thr Ile Gly Lys Ala Leu Gly Leu Arg Glu Ile Gln Val
165 170 175
Trp Lys Asp Val Asp Gly Val Leu Thr Cys Asp Pro Asn Ile Tyr Ala
180 185 190
Asn Ala Val Pro Val Pro Tyr Leu Thr Phe Asp Glu Ala Ala Glu Leu
195 200 205
Ala Tyr Phe Gly Ala Gln Val Leu His Pro Gln Ser Met Arg Pro Ala
210 215 220
Arg Glu Gly Gly Ile Pro Val Arg Val Lys Asn Ser Tyr Asn Arg His
225 230 235 240
Ala Pro Gly Thr Val Ile Thr Lys Thr Arg Asp Met Arg Lys Ser Ile
245 250 255
Leu Thr Ser Ile Val Leu Lys Ser Asn Ile Thr Met Leu Asp Ile Val
260 265 270
Ser Thr Arg Met Leu Gly Gln Tyr Gly Phe Leu Ala Lys Val Phe Ser
275 280 285
Ile Phe Glu Asp Leu Gly Ile Ser Val Asp Ser Val Ala Thr Ser Glu
290 295 300

Val Ser Ile Ser Leu Thr Leu Asp Pro Ser Lys Leu Trp Ser Arg Glu
 305 310 315 320
 Leu Ile Gln Gln Glu Leu Asp His Val Val Glu Glu Leu Glu Lys Ile
 325 330 335
 Ala Val Val His Leu Leu Gln His Arg Ser Ile Ile Ser Leu Ile Gly
 340 345 350
 Asn Val Gln Arg Ser Ser Leu Ile Leu Glu Lys Ala Phe Asn Val Leu
 355 360 365
 Arg Arg Asn Gly Val Asn Val Gln Met Ile Ser Gln Gly Ala Ser Lys
 370 375 380
 Val Asn Ile Ser Leu Val Val Asn Asp Ser Glu Ala Lys Gln Cys Val
 385 390 395 400
 Gln Ala Leu His Ser Ala Phe Phe Glu Asn Gly Phe Leu Ser Glu Val
 405 410 415
 Glu Glu Ala Asp Leu Ala Gln Lys Arg Ala Pro Val Leu Val Ser Ser
 420 425 430
 Asn Gly Ala Ile Asn Gly Asn
 435
 <210> 17
 <211> 564
 <212> PRT
 <213> Glycine max
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 Val Ser Met Ser Val Arg Arg Ser Leu His His Cys Lys Ser Gln Ile
 20 25 30
 Gly Phe Ala Ala Leu Gly Ala Pro Val Cys Ala Arg Arg Val Trp Gly
 35 40 45
 Asn Arg Val Ala Phe Ser Val Thr Thr Cys Lys Ala Ser Thr Ser Asp
 50 55 60
 Val Ile Glu Lys Asn Ala Thr Glu Asn Gly Met Val Ser Ser Glu Gly
 65 70 75 80
 Glu Thr Ser Phe Thr Cys Val Met Lys Phe Gly Gly Ser Ser Val Ala
 85 90 95
 Ser Ala Asp Arg Met Lys Glu Val Ala Thr Leu Ile Leu Ser Phe Pro
 100 105 110
 Glu Glu Arg Pro Ile Val Val Leu Ser Ala Met Gly Lys Thr Thr Asn
 115 120 125
 Lys Leu Leu Leu Ala Gly Glu Lys Ala Val Ser Cys Gly Val Ile Asn
 130 135 140

Val	Ser	Ser	Ile	Glu	Glu	Leu	Cys	Phe	Ile	Lys	Asp	Leu	His	Leu	Arg	145	150	155	160
Thr	Val	Asp	Gln	Leu	Gly	Val	Asp	Gly	Ser	Val	Ile	Ser	Lys	His	Leu	165	170	175	
Glu	Glu	Leu	Glu	Gln	Leu	Leu	Lys	Gly	Ile	Ala	Met	Met	Lys	Glu	Leu	180	185	190	
Thr	Lys	Arg	Thr	Gln	Asp	Tyr	Leu	Val	Ser	Phe	Gly	Glu	Cys	Met	Ser	195	200	205	
Thr	Arg	Ile	Phe	Ala	Ala	Tyr	Leu	Asn	Lys	Ile	Gly	Val	Lys	Ala	Arg	210	215	220	
Gln	Tyr	Asp	Ala	Phe	Glu	Ile	Gly	Phe	Ile	Thr	Thr	Asp	Asp	Phe	Thr	225	230	235	240
Asn	Ala	Asp	Ile	Leu	Glu	Ala	Thr	Tyr	Pro	Ala	Val	Ala	Lys	Arg	Leu	245	250	255	
His	Gly	Asp	Trp	Leu	Ser	Asp	Pro	Ala	Ile	Ala	Ile	Val	Thr	Gly	Phe	260	265	270	
Leu	Gly	Lys	Ala	Arg	Lys	Ser	Cys	Ala	Val	Thr	Thr	Leu	Gly	Arg	Gly	275	280	285	
Gly	Ser	Asp	Leu	Thr	Ala	Thr	Thr	Ile	Gly	Lys	Ala	Leu	Gly	Leu	Pro	290	295	300	
Glu	Ile	Gln	Val	Trp	Lys	Asp	Val	Asp	Gly	Val	Leu	Thr	Cys	Asp	Pro	305	310	315	320
Asn	Ile	Tyr	Pro	Lys	Ala	Glu	Pro	Val	Pro	Tyr	Leu	Thr	Phe	Asp	Glu	325	330	335	
Ala	Ala	Glu	Leu	Ala	Tyr	Phe	Gly	Ala	Gln	Val	Leu	His	Pro	Gln	Ser	340	345	350	
Met	Arg	Pro	Ala	Arg	Glu	Ser	Asp	Ile	Pro	Val	Arg	Val	Lys	Asn	Ser	355	360	365	
Tyr	Asn	Pro	Lys	Ala	Pro	Gly	Thr	Leu	Ile	Thr	Lys	Ala	Arg	Asp	Met	370	375	380	
Ser	Lys	Ala	Val	Leu	Thr	Ser	Ile	Val	Leu	Lys	Arg	Asn	Val	Thr	Met	385	390	395	400
Leu	Asp	Ile	Ala	Ser	Thr	Arg	Met	Leu	Gly	Gln	Tyr	Gly	Phe	Leu	Ala	405	410	415	
Lys	Val	Phe	Ser	Ile	Phe	Glu	Glu	Leu	Gly	Ile	Ser	Val	Asp	Val	Val	420	425	430	
Ala	Thr	Ser	Glu	Val	Ser	Val	Ser	Leu	Thr	Leu	Asp	Pro	Ser	Lys	Leu	435	440	445	
Trp	Ser	Arg	Glu	Leu	Ile	Gln	Gln	Ala	Ser	Glu	Leu	Asp	His	Val	Val	450	455	460	

Glu Glu Leu Glu Lys Ile Ala Val Val Asn Leu Leu Gln Asn Arg Ser
465 470 475 480

Ile Ile Ser Leu Ile Gly Asn Val Gln Arg Ser Ser Leu Ile Leu Glu
485 490 495

Arg Leu Ser Arg Val Leu Arg Thr Leu Gly Val Thr Val Gln Met Ile
500 505 510

Ser Gln Gly Ala Ser Lys Val Asn Ile Ser Leu Val Val Asn Asp Ser
515 520 525

Glu Ala Glu Gln Cys Val Arg Ala Leu His Ser Ala Phe Phe Glu Ser
530 535 540

Glu Leu Ser Glu Leu Glu Met Asp Tyr Lys Asn Gly Asn Gly Ser Val
545 550 555 560

Asp Glu Leu Ser

<210> 18

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic oligonucleotide

<400> 18

ctctctgccca tggggaa

17

<210> 19

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic oligonucleotide

<400> 19

gactggtacc tcagcccacg agtaggt

27

<210> 20

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic oligonucleotide

<400> 20

gactccatgg agggattggg gga

23

<210> 21

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic oligonucleotide

<400> 21
gttttcccca tggcagaga 19

<210> 22
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
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<400> 22
ttagtggttc tgtgttactt gatccatcaa ag 32

<210> 23
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic oligonucleotide

<400> 23
ctttgatgga tcaagtaaca cagaaacact aac 33

<210> 24
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic oligonucleotide

<400> 24
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<210> 25
<211> 11
<212> PRT
<213> Zea maize

<220>
<223> DOMAIN

<400> 25
Thr Ser Glu Val Ser Val Ser Val Ser Leu Asp
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<210> 26
<211> 11
<212> PRT
<213> Escherichia coli

<220>
<223> DOMAIN

<400> 26

Thr Ser Glu Val Ser Val Ala Leu Thr Leu Asp
1 5 10

<210> 27
<211> 12
<212> PRT
<213> Zea maize

<220>
<223> DOMAIN

<400> 27
Ser Ser Arg Met Leu Gly Gln Tyr Gly Phe Leu Ala
1 5 10

<210> 28
<211> 12
<212> PRT
<213> Escherichia coli

<220>
<223> DOMAIN

<400> 28
Ser Leu Asn Met Leu His Ser Arg Gly Phe Leu Ala
1 5 10